



SEQUENCE LISTING

<110> Mulligan, John T.
Tabone, John C.

<120> METHODS FOR IMPROVING THE SEQUENCE
FIDELITY OF SYNTHETIC DOUBLE-STRANDED OLIGONUCLEOTIDES

<130> 340078.401

<140> 09/872,761

<141> 2001-06-01

<160> 15

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 205

<212> DNA

<213> Artificial Sequence

<220>

<223> 205 base pair segment of the lacI gene sequence
synthesized using overlapping double-stranded
oligonucleotides

<400> 1

aattcataaa ggagatatca tatgaaaccg gtaacgttat acgacgtcgc tgaatacgcc 60
ggcgtttctt accagaccgt ttctagagtg gttaaccagg cttcacatgt tagcgctaaa 120
accgggaaa aagttgaagc tgccatggct gagtcaact acatcccga ccggtgttgcg 180
cagcagctgg ctggtaaaca aagct 205

<210> 2

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Modified oligonucleotides containing 2,6
diaminopurine

<221> modified_base

<222> (11)...(11)

<223> n = 2,6-diaminopurine

<400> 2

accgtttcta nagtgggttaa ccagg

25

<210> 3

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Modified oligonucleotides containing 2,6
diaminopurine

<221> modified_base

<222> (13)...(13)

<223> n = 2,6-diaminopurine

<400> 3

accgtttcta gantgggtaa ccagg

25

<210> 4

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Modified oligonucleotides containing 2,6
diaminopurine

<221> modified_base

<222> (8)...(8)

<223> n = 2,6-diaminopurine

<400> 4

ggaaaaantt gaagctgccca tggct

25

<210> 5

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> Modified oligonucleotides containing 2,6
diaminopurine

<221> modified_base

<222> (3)...(3)

<223> n = 2,6-diaminopurine

<400> 5

ttncgcagca gctggctggt aaacaa

26

<210> 6

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Modified nucleotides containing uracil.

<400> 6

tgaagcctgg ttaaccactu tagaa 25

<210> 7
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Modified nucleotides containing uracil.

<400> 7
 agctcagcca tggcagcttc aautt 25

<210> 8
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Modified nucleotides in which uracil was substituted for adenosine.

<400> 8
 agctcagcca tggcagcttc auctt 25

<210> 9
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Modified nucleotides in which uracil was substituted for adenosine.

<400> 9
 ttgcgcugca gctggctggt aaacaa 26

<210> 10
 <211> 197
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Fragment of the lacI gene sequence.

<400> 10
 cataaaggag atatcatatg aaaccggtaa cggtatacga cgtcgctgaa tacgccggcg 60
 tttcttacca gaccgtttct agagtgggta accaggcttc acatgttagc gctaaaaccc 120
 gggaaaaagt tgaagctgcc atggctgagc tcaactacat cccgaaccgt gttgcgcagc 180
 agctggctgg taaacaa 197

<210> 11
 <211> 48
 <212> DNA

<213> Artificial Sequence

<220>

<223> Control synthetic 48 bp sequence

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attcgccctt tgccactaag caccagcgaa acggtactta ccgacacg 48

<210> 12

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> 48mer containing synthesis byproducts

<400> 12

tcgccctttg ccactaagca ccagcgaaac ggtactaccg acacg 45

<210> 13

<211> 49

<212> DNA

<213> Artificial Sequence

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<223> 48mer containing synthesis byproducts

<400> 13

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<210> 14

<211> 48

<212> DNA

<213> Artificial Sequence

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<223> 48mer containing synthesis byproducts

<400> 14

attcgccctt tgccactaag caccagcgaa acggtacttg ccgacacg 48

<210> 15

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> 48mer containing synthesis byproducts

<400> 15

attcgccctt tgccactaag caccagcgaa acggtactta gcgacacg 48